

**PROCESS FOR SEPARATING AND RECYCLING OXYGENATE(S) TO
AN OXYGENATE-TO-OLEFIN REACTOR**

ABSTRACT

The present invention is a process for producing olefin(s) from oxygenate(s). The process removes oxygenate(s) including carbon dioxide in the bottoms of the quench stream and recycles the oxygenate(s) back to the reactor. Carbon dioxide is removed from the quench bottoms before returning oxygenate(s) in the quench bottoms stream to the reactor.